

FIGURE 1 HRP Reaction Scheme

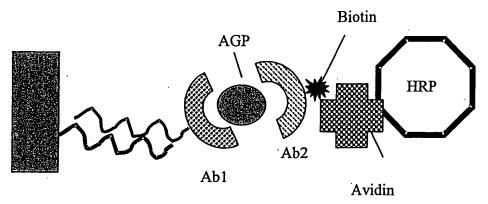
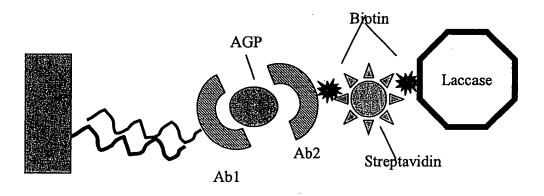
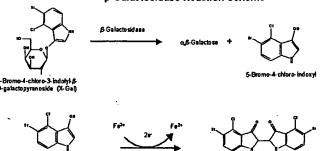


FIGURE 2 Laccase System





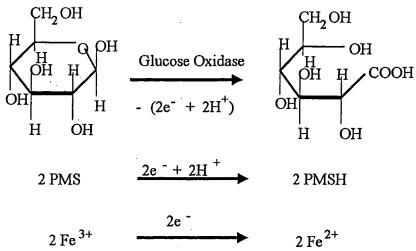
β-Galactosidase Reaction Scheme



Further oxidation:



Glucose Oxidase Reaction Scheme



PMS = 5-methyl-phenazinium methyl sulfate



OH
$$+ \frac{1}{2}O_{2} \xrightarrow{HRP} H_{2}O + \left(\begin{array}{c} O \\ \downarrow \downarrow \\ \downarrow \downarrow \\ O \end{array}\right)$$

$$O \\ \downarrow \downarrow \\ O \\ \downarrow \\ O$$



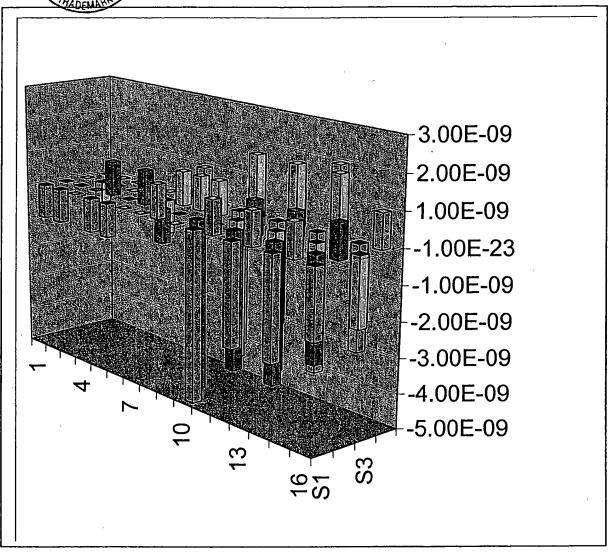
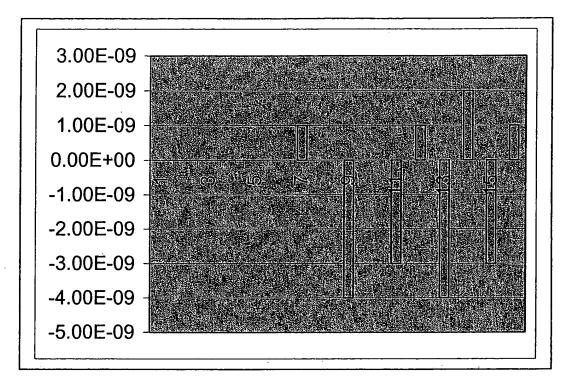
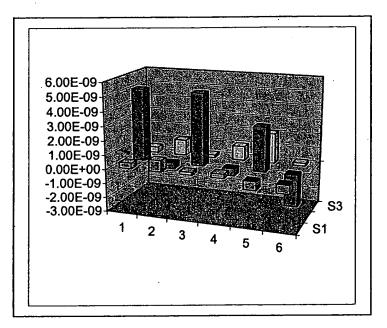




FIGURE 7









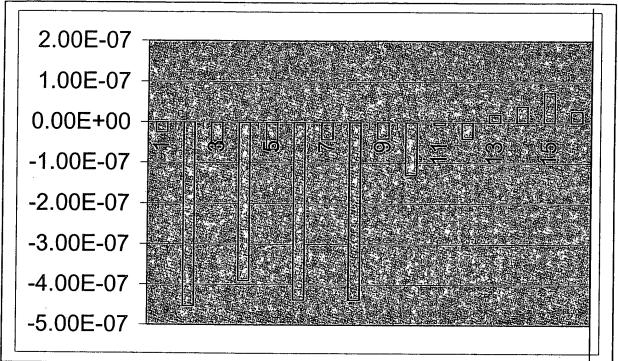




FIGURE 10

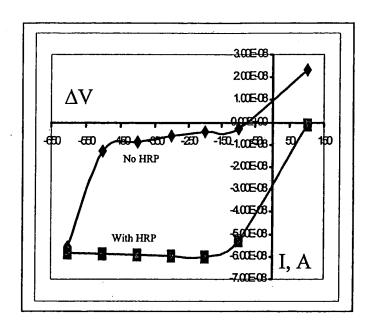
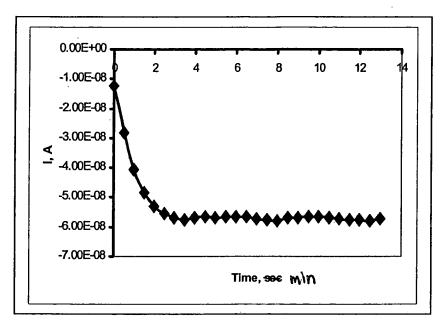


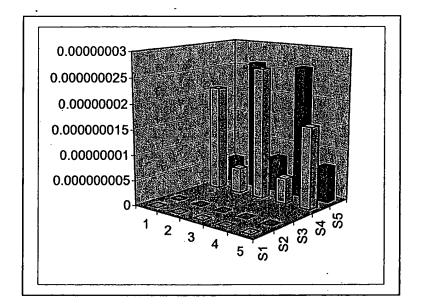


FIGURE 11

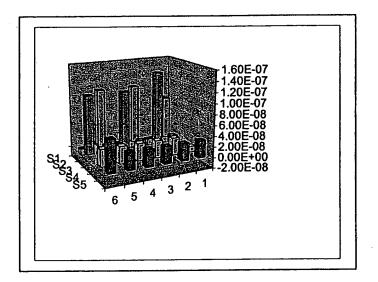




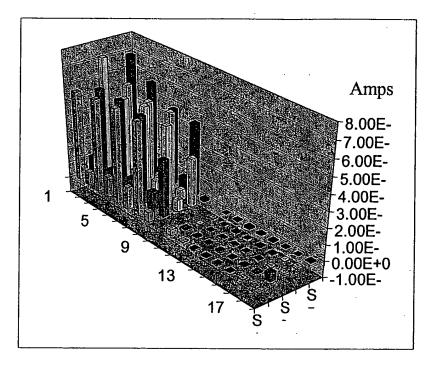


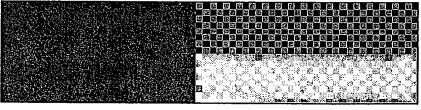












Kras Sequence
Rabbit Sequence